

# Schedule

Admaterials Technologies Pte Ltd  
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Singapore 729501

Certificate No. : LA-2010-0461-A  
Issue No. : 8  
Date : 12 September 2014  
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FIELD OF TESTING : Chemical and Biological Testing

MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	METHODS
<b>A. Aggregates</b>	1) Chloride Content	SS 73: Part 17: 1992 BS 812: Part 117: 1988 BS EN 1744-1: 2009 + A1: 2012 (Clause 7) BS EN 1744-1: 1998 (Clause 7) BS EN 1744-5: 2006
	2) Sulphate Content	SS 73: Part 18: 1992 BS 812: Part 118: 1988 BS EN 1744-1: 2009 + A1: 2012 (Clause 10, 12) BS EN 1744-1: 1998 (Clause 10, 12)
	3) Potential Alkali Silica Reactivity (Chemical Method)	ASTM C289: 2007
	4) Lightweight Organic Contaminator	BS EN 1744-1: 2009 + A1: 2012 (Clause 14.2)
	5) Humus Content	BS EN 1744-1: 2009 + A1: 2012 (Clause 15.1)
	6) Fulvo Acid	BS EN 1744-1: 2009 + A1: 2012 (Clause 15.2)
	7) Loss on Ignition	BS EN 1744-1: 2009 + A1: 2012 (Clause 17)

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MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	METHODS
<b>B. Soil</b>	1) pH Value	)
	2) Organic Matter	)
	3) Mass Loss on Ignition	)
	4) Sulphate Content	) BS 1377-3: 1990
	5) Carbonate Content	)
	6) Chloride Content	)
	7) Total Dissolved Solid	)
	8) Heavy Metals (As, Al, Ag, B, Be, Ba, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Se, Sn, Sr, V, Zn and Hg)	USEPA 3050B: 1996 (Digestion) USEPA 3051A: 2007 (Digestion) USEPA 6010C: 2007 (Analysis)
	9) Rapid Determination of Carbonate	ASTM D4373-02 (2007)
<b>C.1 Cement, Silica Fume, Ground Granulated Blast Furnace Slag</b>	1) Loss of Ignition	)
	2) Sulfate	)
	3) Residual Insoluble	)
	4) Manganese	)
	5) Silica	)
	6) Iron (III) Oxide	)
	7) Aluminium Oxide	) BS EN 196-2: 2013
	8) Calcium Oxide	) SS 397: Part 2: 1997
	9) Magnesium Oxide	)
	10) Chloride	)
	11) Alkali	)
	12) Carbon Dioxide	)
	13) Sulfide	)
	14) Pozzolanicity	BS EN 196-5: 2011
	15) Heat of Hydration – Solution Method	BS EN 196-8: 2010
<b>C.2 Cement, Fly Ash</b>	1) Reactive Silica	BS EN 196-2: 2013/ (BS EN 197-1: 2011) (BS EN 450-1:2012)
<b>C.3 Silica Fume</b>	1) Specific Surface Area — BET method	ISO 9277: 2010

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<b>C.4 Fly Ash</b>	1) Loss of Ignition 2) Sulfate 3) Residual Insoluble 4) Manganese 5) Silica 6) Iron (III) Oxide 7) Aluminium Oxide 8) Calcium Oxide 9) Magnesium Oxide 10) Chloride 11) Alkali	BS EN 196-2: 2013 (BS EN 450-1: 2012)
<b>D. Concrete (Hardened Concrete)</b>	1) Chloride 2) Sulphate 3) Cement Content	) ) BS 1881 : Part 124 : 1988 )
<b>E. Plaster / Motar / Screed</b>	1) Mix Composition (i.e. Cement, Lime, Gypsum & Aggregate) 2) Chloride 3) Sulphate	) ) BS 4551 : 2005 + A2:2013 ) )
<b>F. Admixture</b>	1) Absolute Density at 20°C 2) Conventional Dry Material Content 3) pH Value at 20°C 4) Water Soluble Chloride 5) Alkali Content 6) Silicon Dioxide SiO <sub>2</sub> Content 7) Infrared Analysis 8)	ISO 758: 1976  BS EN 480-8: 2012  ISO 4316: 1977  BS EN 480-10: 2009 BS EN 480-12: 2005  BS EN 196-2: 2013 (procedure 4.5)  BS EN 480-6: 2005
<b>G. Repair Material</b>		
1. Polymer Modified Cement Motar / Waterproofing Coating	1) Polymer Content 2) Polymer Identification 3) Cement Content	ADM/C&B/001: 2013 ADM/C&B/002: 2010 BS 4551: 2005 + A2: 2013

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2. Cementitious Waterproof Membrane	1) Verification of base polymer 2) Chloride Content	ADM/C&B/001: 2013 ADM/C&B/002: 2010 ADM/C&B/003: 2010
3. Waterproofing Coating - for repair to external wall	1) Verification of base polymer 2) Polymer Content	ADM/C&B/002: 2010 ADM/C&B/001: 2013
4. Non-Cementitious Waterproof Membrane	1) Volatile Content 2) Verification of base polymer	ADM/C&B/001: 2013 ADM/C&B/001: 2013 ADM/C&B/002: 2010
<b>H. Building Material</b>		
1. Prepacked Mortar	1) Polymer Content	ADM/C&B/001: 2013
2. Prepacked Skim Coat	2) Product Identification Analysis	ADM/C&B/002: 2010
3. Prepacked Waterproof Screed	1) Product Identification Analysis 2) Polymer Content	ADM/C&B/002: 2010 ADM/C&B/001: 2013
4. Tile Grout		
5. Acrylic Polymer Cementitious Coating	1) Identification of Polymer	ADM/C&B/002: 2010
<b>I. Paint</b>		
	1) Density	SS 5: Part B7: 2013
	2) Non Volatile Matter	SS 5: Part B2: 2013
	3) Paint Dilution Test	ADM/C&B/004:2014
<b>J. Metal and Metal Products</b>		
	Determination of Metal Composition by Optical Emission Spectroscopy	
	1) Carbon and Low Alloy Steels	ASTM E415: 2014 ASTM A751: 2014
	2) Stainless Steels	ASTM E1086: 2014 ASTM A751: 2014

## Approved Signatory

- |                     |              |
|---------------------|--------------|
| 1) Mr Lu Jin Ping   | ) All tests  |
| 2) Mr Julifin       | ) All tests  |
| 3) Ms Sherly Wijaya | ) All tests  |
| 4) Ms May Soe Moe   | ) All tests, |
| 5) Ms Meng Yuan     | ) All tests  |

The SAC Programme is managed by SPRING Singapore

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Note :

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005. A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid test results. The **management system requirements** in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 **Quality Management Systems — Requirements** and are aligned with its pertinent requirements.